

React JS Full Course – Zero to Advanced

This course is a complete, industry-ready React JS guide designed for beginners and developers who want to become job-ready.

It covers fundamentals, advanced concepts, real-world projects, and best practices used by professionals.

MODULE 1: JavaScript Refresher for React

- let, const, var
- Arrow functions
- Destructuring
- Spread & Rest operators
- map, filter, reduce
- Async / Await
- Modules (import / export)

MODULE 2: Introduction to React

- What is React?
- SPA vs MPA
- Virtual DOM
- React architecture
- Why companies use React

MODULE 3: Environment Setup

- Node.js & npm
- VS Code setup
- Vite vs Create React App
- Folder structure

MODULE 4: JSX & Components

- JSX rules
- Expressions in JSX
- Functional components
- Component reuse
- File organization

MODULE 5: Props & State

- Props drilling
- useState hook
- State updates
- Immutable state
- Props vs State

MODULE 6: Events & Forms

- Handling events
- Controlled components
- Form validation
- Multiple inputs

MODULE 7: Conditional Rendering & Lists

- if / ternary rendering
- Logical &&
- Rendering lists
- Keys importance

MODULE 8: React Hooks (Deep Dive)

- useEffect lifecycle
- Dependency array
- Cleanup functions
- useRef
- useMemo
- useCallback

MODULE 9: Routing with React Router

- SPA routing
- Dynamic routes
- useParams
- useNavigate
- Protected routes

MODULE 10: API Integration

- Fetch API
- Axios
- Error handling
- Loading states
- Environment variables

MODULE 11: Styling in React

- CSS & SCSS
- CSS Modules
- Tailwind CSS
- Styled Components

MODULE 12: State Management

- Lifting state up

- Context API
- Redux Toolkit
- Best practices

MODULE 13: Authentication

- Login & Signup
- JWT tokens
- Role-based access
- Secure routes

MODULE 14: Performance Optimization

- Code splitting
- Lazy loading
- React.memo
- Optimization strategies

MODULE 15: Testing

- Jest basics
- React Testing Library
- Unit & integration tests

MODULE 16: Build & Deployment

- Production build
- Netlify
- Vercel
- GitHub Pages

PROJECTS:

Beginner:

- Counter App
- Todo App
- Calculator

Intermediate:

- Weather App
- Quiz App
- Movie App

Advanced:

- Authentication System
- Admin Dashboard
- Full Stack React App

CAREER GUIDANCE:

- Portfolio building
- GitHub best practices
- Interview preparation
- React job roadmap